

## Amendments to the Claims

Claim 1-75 (Cancelled).

Claim 76 (Currently amended): A process for ~~increasing the isomeric purity of purifying~~ chlorofluorinated compounds comprising:

providing a first mixture comprising both first and second isomers of a C-3 chlorofluorinated ~~isomers~~ compound, the first mixture having a first ratio of the first isomer to the second isomer; and

~~heating said~~ contacting the mixture in the presence of ~~with~~ a catalyst at a sufficient temperature to reduce the amount of at least one of the chlorofluorinated compound ~~isomers~~ to form a second mixture comprising a second ratio of the first isomer to the second isomer, wherein the first ratio is less than the second ratio.

Claim 77 (Currently amended): The process of claim 76 wherein the C-3 chlorofluorinated compound ~~isomers~~ comprise CFC-216aa comprises C<sub>3</sub>F<sub>6</sub>Cl<sub>2</sub>, the first isomer comprises CF<sub>3</sub>CCl<sub>2</sub>CF<sub>3</sub>, and ~~CFC-216ba~~ the second isomer comprises CF<sub>3</sub>CClFCF<sub>2</sub>Cl.

Claim 78 (Currently amended): The process of claim 76 wherein the C-3 chlorofluorinated compound ~~isomers~~ comprise CFC-217ba comprises C<sub>3</sub>F<sub>7</sub>Cl, the first isomer comprises CF<sub>3</sub>CClFCF<sub>3</sub>, and ~~CFC-217ca~~ the second isomer comprises CF<sub>3</sub>CF<sub>2</sub>CF<sub>2</sub>Cl.

Claim 79 (Currently amended): The process of claim 76 wherein the catalyst comprises a chromium containing catalyst.

Claim 80 (Currently amended): The process of claim 76 wherein the contacting further  
comprises heating the mixture to a temperature is of from about 250°C to about 350°C.

Claim 81 (Original): The process of claim 80 wherein the temperature is about 280°C.

Claims 82-88 (Cancelled).

Claim 89 (New): The process of claim 76 further comprising separating at least a portion of  
the first isomer from the second mixture.

Claim 90 (New): The process of claim 89 wherein the separating comprises distilling the  
second mixture to form a solution comprising the portion of the first isomer.